

| <b>PIPE</b><br><b>INFORMATION DISCLOSURE CITATION</b><br><small>(Use separate sheets if necessary)</small><br><b>DEC 21 2004</b><br><b>PATENT &amp; TRADEMARK OFFICE</b>  |     |                 |            | Docket Number (Optional)<br><b>W-0006</b>   |       | Application Number<br><b>10/618,394</b> |                               |                               |
|---|-----|-----------------|------------|---|-------|---|-------------------------------|-------------------------------|
|   |     |                 |            | Applicant(s)<br><b>Robert Bening et al.</b> |       |   |                               | Group Art Unit<br><b>1711</b> |
|   |     |                 |            | Filing Date<br><b>July 11, 2003</b>         |       |   |                               |                               |
| <b>U.S. PATENT DOCUMENTS</b>  |     |                 |            |   |       |   |                               |                               |
| *EXAMINER<br>INITIAL  | REF | DOCUMENT NUMBER | DATE       | NAME  | CLASS | SUBCLASS                                | FILING DATE<br>IF APPROPRIATE |                               |
| OA  |     | 5,420,203       | 05-30-1995 | Dillman et al.                              | _____ | _____                                   |                               |                               |
| OA  |     | 6,455,651       | 09-22-2002 | Willis et al.                               | _____ | _____                                   |                               |                               |
| OA  |     | 6,492,466       | 12-10-2002 | Willis et al.                               | _____ | _____                                   |                               |                               |
| OA  |     | 6,492,469       | 12-10-2002 | Willis et al.                               | _____ | _____                                   |                               |                               |
| OA  |     | 6,506,846       | 01-14-2003 | Schade et al.                               | _____ | _____                                   |                               |                               |
| <b>U.S. PATENT APPLICATION PUBLICATIONS</b>   |     |                 |            |   |       |   |                               |                               |
| *EXAMINER<br>INITIAL  | REF | DOCUMENT NUMBER | DATE       | NAME  | CLASS | SUBCLASS                                | FILING DATE<br>IF APPROPRIATE |                               |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |     |                 |            |   |       |   |                               |                               |
|   | REF | DOCUMENT NUMBER | DATE       | COUNTRY                                     | CLASS | SUBCLASS                                | Translation                   |                               |
|   |     |                 |            |   |       |   | YES                           | NO                            |
|   |     |                 |            |   |       |   |                               |                               |
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|   |     |                 |            |   |       |   |                               |                               |
| <b>OTHER DOCUMENTS</b> <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>  |     |                 |            |   |       |   |                               |                               |
|   |     |                 |            |   |       |   |                               |                               |
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| EXAMINER  |     |                 |            | DATE CONSIDERED                             |       |   |                               |                               |
| Oleg A. Sinovskiy   |     |                 |            | Feb. 2, 2005                                |       |   |                               |                               |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |     |                 |            |   |       |   |                               |                               |

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| <b>INFORMATION DISCLOSURE CITATION</b><br>(Use several sheets if necessary)<br><div style="border: 2px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">             PATENT &amp; TRADEMARK OFFICE           </div> <div style="text-align: center;"> <div style="font-size: 2em; font-weight: bold;">PIPE</div> <div style="font-weight: bold;">NOV 29 2004</div> </div> </div> |  |  |  | Docket Number (Optional)<br><b>W-0006</b>   |  | Application Number<br><b>10/618,394</b> |  |
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| U.S. PATENT DOCUMENTS |     |                 |            |               |       |          |                            |
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| *EXAMINER INITIAL     | REF | DOCUMENT NUMBER | DATE       | NAME          | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| OA                    |     | 5,272,214       | 12-21-1993 | Custro et al. |       |          |                            |
| OA                    |     | 5,552,493       | 09-03-1996 | Spence et al. |       |          |                            |
|                       |     |                 |            |               |       |          |                            |
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| U.S. PATENT APPLICATION PUBLICATIONS |     |                 |            |                  |       |          |                            |
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| *EXAMINER INITIAL                    | REF | DOCUMENT NUMBER | DATE       | NAME             | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| OA                                   |     | 2003/0114592 A1 | 06-19-2003 | Brockmann et al. |       |          |                            |
| OA                                   |     | 2003/0114611 A1 | 06-19-2003 | Brockmann et al. |       |          |                            |
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| FOREIGN PATENT DOCUMENTS |     |                 |      |         |       |          |              |    |
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|                          | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translations |    |
|                          |     |                 |      |         |       |          | YES          | NO |
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| OTHER DOCUMENTS |  |  | (Including Author, Title, Date, Pertinent Pages, Etc.) |
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| EXAMINER<br><b>Olga Asinovsky</b> | DATE CONSIDERED<br><b>Feb 2, 2005</b> |
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# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

W0006

Application Number

Applicant(s)

Robert Bening, et al.

Filing Date

July 11, 2003

Group Art Unit

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE       | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----|-----------------|------------|-------------------|-------|----------|-------------------------------|
| O.A.                |     | 4,480,075       | 10/30/1984 | Willis            |       |          |                               |
|                     |     | 6,462,143       | 10/8/2002  | Willis, et al.    |       |          |                               |
|                     |     | 6,103,846       | 8/15/2000  | Willis, et al.    |       |          |                               |
|                     |     | 6,242,537       | 6/5/2001   | Bening, et al.    |       |          |                               |
|                     |     | 6,242,538       | 6/5/2001   | Bening, et al.    |       |          |                               |
|                     |     | 6,391,981       | 5/21/2002  | Willis, et al.    |       |          |                               |
|                     |     | 5,610,227       | 3/11/1997  | Antkowiak, et al. |       |          |                               |
|                     |     | 6,271,324       | 8/7/2001   | Jungling, et al.  |       |          |                               |
|                     |     | 5,216,181       | 6/1/1993   | Hargis, et al.    |       |          |                               |
| O.A.                |     | 4,889,900       | 12/26/1989 | DuBois            |       |          |                               |

## FOREIGN PATENT DOCUMENTS

| REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation |
|-----|-----------------|------|---------|-------|----------|-------------|
|     |                 |      |         |       |          | YES NO      |
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| O.A. | "Identifying the Nature of the Active Species in the Polymerization of Methacrylates: Inhibition of Methyl Methacrylate Homopolymerizations and Reactivity Ratios for..." by D. M. Haddleton, M. C. Crossman, K. H. Hunt, C. Topping, C. Waterson, and K. G. Suddaby, <u>Macromolecules</u> 1997, 30, pp. 3992-3998. |
| O.A. | "Mechanism of Anionic Polymerization of (Meth)acrylates in the Presence of Aluminum Alkyls, 6. Polymerization of Primary and Tertiary Acrylates," by B. Schmitt, H. Schlaad, and A. H. E. Muller, <u>Macromolecules</u> , Vol. 31, No. 6, March 24, 1998, pp. 1705-1709.   |

EXAMINER

Olga Astinovsky

DATE CONSIDERED

September 15, 2004

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| O.A.                |     | 3,631,006       | 12/28/1971 | Hawkins             |       |          |                               |
|                     |     | 5,376,745       | 12/27/1994 | Handlin, Jr. et al. |       |          |                               |
|                     |     | 4,429,091       | 1/31/1984  | Hall                |       |          |                               |
|                     |     | 4,476,240       | 10/9/1984  | Hall, et al.        |       |          |                               |
|                     |     | 4,473,661       | 9/25/1984  | Hall                |       |          |                               |
|                     |     | 5,397,851       | 3/14/1995  | Knauf, et al.       |       |          |                               |
|                     |     | 5,202,499       | 4/13/1993  | Hargis, et al.      |       |          |                               |
|                     |     | 5,063,190       | 11/5/1991  | Hargis, et al.      |       |          |                               |
|                     |     | 5,216,181       | 6/1/1993   | Hargis, et al.      |       |          |                               |
|                     |     | 5,412,045       | 5/2/1995   | Osman, et al.       |       |          |                               |
| O.A.                |     | 4,518,753       | 5/21/1985  | Richards, et al.    |       |          |                               |

## FOREIGN PATENT DOCUMENTS

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|-----|-----------------|------|---------|-------|----------|-------------|----|
|     |                 |      |         |       |          | YES         | NO |
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| O.A. | "Controlled Anionic Polymerization of tert-Butyl Acrylate With Diphenylmethylpotassium in the Presence of Triethylborane," by T. Ishizone, K. Yoshimura, E. Yanase, and S. Nakahama, <u>Macromolecules</u> 1999, 32, pp. 955-957.                       |
| O.A. | "Stereospecific Living Polymerization and Copolymerization of Methacrylate and Their Use for Construction of Stereoregular Chain Architecture," by K. Hafada, T. Kitayama, and K. Ute, <u>Makromol. Chem., Macromol. Symp.</u> 70/71, (1993) pp. 57-66. |

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| EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE       | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----|-----------------|------------|-------------------|-------|----------|-------------------------------|
| O.A.                |     | 5,331,058 .     | 7/19/1994  | Shepherd, et al.  |       |          |                               |
|                     |     | 5,416,168 .     | 5/16/1995  | Willis, et al.    |       |          |                               |
|                     |     | 5,665,827       | 9/9/1997   | Hall              |       |          |                               |
|                     |     | 5,936,029 .     | 8/10/1999  | Hall              |       |          |                               |
|                     |     | 5,700,888 .     | 12/23/1997 | Hall              |       |          |                               |
|                     |     | 5,677,399       | 10/14/1997 | Hall              |       |          |                               |
|                     |     | 4,591,624 .     | 5/27/86    | Hall              |       |          |                               |
|                     |     | 4,520,123 .     | 5/28/1985  | Hall              |       |          |                               |
|                     |     | 4,429,090 .     | 1/31/1984  | Hall              |       |          |                               |
|                     |     | 4,530,984 .     | 7/23/1985  | Hall              |       |          |                               |
| O.A.                |     | 5,610,227 .     | 3/11/1997  | Antkowiak, et al. |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|      | REF | DOCUMENT NUMBER | DATE      | COUNTRY | CLASS | SUBCLASS | Translation |    |
|------|-----|-----------------|-----------|---------|-------|----------|-------------|----|
|      |     |                 |           |         |       |          | YES         | NO |
| O.A. |     | WO 98/07765     | 2/26/1998 | WO      |       |          |             |    |
| O.A. |     | WO 98/07766     | 2/26/1998 | WO      |       |          |             |    |
| O.A. |     | WO 97/33923     | 9/18/1997 | WO      |       |          |             |    |
|      |     |                 |           |         |       |          |             |    |
|      |     |                 |           |         |       |          |             |    |

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| O.A. |  | "Solid-State NMY of Aromatic Polyamides," by S. A. Curran, C.P. LaClair, and S.M. Aharoni, <u>Macromolecules</u> 1991, 24, pp. 5903-5909.  |
| O.A. |  | "Towards the Control of the Reactivity in High Temperature Bulk Anionic Polymerization of Styrene, I," by P. Desbols, M. Fontanille, A. Deffieux, V. Warzelhan, S. Latsch, C. Schade, <u>Macromol. Chem. Phys</u> 200, (1999) pp. 621-628. |

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